

PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON

PRODROME OF A REVISION OF THE CHRYSODOMOID
WHELKS OF THE BOREAL AND ARCTIC REGIONS.

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The following revision of the boreal and arctic Chrysodomoid whelks results from a study of the collection from the north Pacific now contained in the National Museum and brought together from many sources.

The full report on the group will be more or less delayed, but will contain the data upon which this revision is founded, including new anatomical and other details.

FAMILY BUCCINIDÆ.

Genus CHRYSODOMUS Swainson, 1840.

Type *Murex antiquus* Gmelin. Britain.

Section **Sulcosipho** Dall, nov.

Type *Chrysodomus tabulatus* Baird. Puget Sound.

Subgenus **Barbitonia** Dall, nov.

Type *Fusus arthriticus* Bernardi. Japan.

Genus SEARLESIA Harmer, 1914.

Type *Trophon costifer* S. Wood. British Crag. (Recent analogue *Buccinum dirum* Reeve. Puget Sound.)

Genus ECPHORA Conrad, 1843.

Type *Fusus quadricostatus* Say. Miocene, Maryland.

?Genus STENOMPHALUS Sandberger, 1853.

Type *Fusus cancellatus* (Thomae) Sandberger. German Miocene.

Genus COLUS (Bolten, 1798) Dall, restr. 1906.

Type *Murex islandicus* Gmelin. Iceland.

Section **Latisipho** Dall, nov.

Type *Chrysodomus hypolispus* Dall. Bering Sea.

Subgenus **ANOMALOSIPHO** Dautzenberg and Fischer, 1912.

Type *Colus dautzenbergi* Dall, (= *Sipho verkruzeni* D. & F. 1912, not of Kobelt, 1876).

Genus **SIPHONORBIS** Mörch, 1869.

Type *Siphonorbis ebur* Mörch. Greenland.

Genus **KRYPTOS** Jeffreys, 1896.

Type *Kryptos elegans* Jeffreys. N. E. Atlantic, abyssal.

Genus **PLICIFUSUS** Dall, 1902.

(*Parasipho* Dautzenberg and Fischer, 1912.) Type *Fusus kroyeri* Möller. Greenland.

Subgenus **Retifusus** Dall, nov.

Type *Tritonium jessoense* Schrenck, 1867. Japan.

Section **Latifusus** Dall, nov.

Type *Chrysodomus griseus* Dall. California, abyssal.

Section **Microfus** Dall, nov.

Type *Chrysodomus acutispiratus* Sowerby. Japan.

Section **Helicofusus** Dall, nov.

Type *Chrysodomus laticaudatus* Dall. Bering Sea.

Genus **EXILIA** Conrad, 1860.

Type *Exilia pergracilis* Conrad. Eocene. (Recent analogue *Chrysodomus kelseyi* Dall. San Diego, California.)

Genus **VOLUTOPSIUS** Mörch, 1857.

Type *Fusus largillierti* Petit. Newfoundland Banks.

Genus **PYROLOFUSUS** (Beck) Mörch, 1857.

Type *Fusus deformis* Reeve. Arctic seas.

Genus **BERINGIUS** Dall, 1879.

Type *Chrysodomus crebricostatus* Dall. Kadiak, Alaska.

Genus **LIOMESUS** Stimpson, 1865.

(*Buccinopsis* Jeffreys, 1867, not Conrad, 1857.) Type *Buccinum dalei* J. Sowerby. British Crag.

Genus **ANCISTROLEPIS** Dall, 1894.

Type *Chrysodomus eucosmius* Dall. Bering Sea.

Section **Japeliion** Dall, nov.

Type *Buccinum hirasei* Pilsbry. Japan.

?Genus **SULCOSINUS** Dall, 1894.

Type *Buccinum? taphrium* Dall. Bering Sea.

I refer *Turrisipho* Dautzenberg and Fischer, to *Siphonorbis*; *Jumala* and *Ukko* Friele, to *Beringius*; *Neptunea* to *Chrysodomus*; *Tritonofusus* to the prior *Colus*, with *Sipho* Mörch not Brown, *Neptunella* and *Siphonella*. The entire group of *Fusinus* is separated from *Colus* by its nuclear characters.